TELEPORTER 3

USER MANUAL

version: 1.00

Dear Customer,

Thank you for choosing the Teleporter-3.

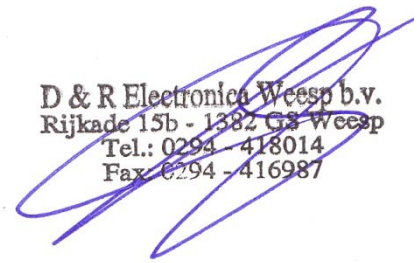
Specialists in the field of Radio/TV Broadcast and audio production designed the Teleporter-3.
It is a system that is capable of working in a multitude of applications.

To be able to improve our products we always value suggestions once you have become familiar with your system. We will certainly learn from your comments and very much appreciate you dropping us a mail at info@d-r.nl

We are confident that you will be using the Teleporter-3 for many years to come, and wish you lots of success in your business.

And please take some time to read this manual first to avoid unnecessary questions to yourself and… to us ☺.

With kind regards,



Duco de Rijk
President

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INTRODUCTION

The Teleporter-3 is the latest analog standard in portable telecommunication for professional reporters, who require communication with their studio without any problems or hassle with batteries.

The Teleporter-3 is a compact reporter unit which can be used to drive domestic phone lines with Mic and line signals. By intelligent processing in specially designed telecommunication chips we have combined remarkable sound quality with optimum modulation of the telephone line.
The actual use of the Teleporter-3 is very easy due to the wide dynamic range.
The internal compressor can handle almost any incoming signal automatically on the Mic and or line input.
Besides the Mic and line input there is also a record output to record telephone conversations at location as well as in the studio. You can use the Teleporter-3 anywhere. Advanced internal circuitry keeps current extremely low, so batteries are not needed. The line voltage can vary between extremes without changing any function and or transmit quality of the Teleporter -3.

RE-DIAL FUNCTIONS ARE STANDARD.
The Teleporter-3 totally replaces all the functions of a modern telephone set. Functions such as tone/pulse selector, internal buzzer and Flash function.
Both Mic and line signals can be send at the same time.
The Balance control adjusts the balance between outgoing (Mic/Line) and incoming (telephone) signals, and the phones control adjusts the level. The "ON" switch connects the Teleporter-3 with the phone lines. The "BUZZER" switch deactivates the internal buzzer if needed. The "RING" led indicates a call at any time.

The back panel has an XLR connector for Microphone and Cinch connectors for Line level inputs. (stereo will be combined to mono). Also a second pair of Cinch connectors is available for Record out. The headphone connector is on standard 1/4" jack.

On the left you will see the standard RJ11 standardized telephone line connector.

By using the Teleporter-3 you have total control over transmitting your valuable interviews at any time without the risk of running out of batteries during long reports.

SPECIFICATIES:

- Pulse and DTMF dialing.
- Dynamic limiting (speech controlled) is independent of cable length/line voltage.
- Power-down input for improved performance during pulse dial or register recall (flash).
- Line loss compensation.
- Automatic disabling of the DTMF amplifier in extreme low voltage conditions

Connectors	: Jack stereo 6.3mm, XLR and Cinch connectors
Input impedance	: 5kOhm (transformer balanced)
Output level	: -40 up to +6 dBu
Output impedance	: 2kOhm (transformer balanced)
Noise on Receive output	: less than -82dB (A weighted)
Power supply	: Powered by telephone line
Dimensions	: Front 240x44mm, Depth 110mm
Weight	: 725grams
Connector	: RJ11
Nominal input level	: -6dBu
Nominal output level	: -6dBu
Compensation Mode	: fully electronic
Impedance	: 600 Ohm

DESCRIPTION

The Teleporter-3 is a small unit capable of mixing Mic signals and /or line signals into a two wire telephone line, conform international telephone company standards.
A headphone output provides you with loud and clear signals to and from the Teleporter-3 unit.

The Teleporter-3 unit is powered by the telephone line, there is no battery or external power supply necessary to make the unit work.
It is very easy to use the Teleporter-3. A standard telephone cable is available at your local Phone shop connects the Teleporter-3 with the telephone system, or an internal telephone switching system. On the back there is 1 female XLR connectors for Mic and a couple of Cinch connectors for line inputs. The other 2 Cinch connectors can feed a tape deck if needed.
A stereo jack is provided for feeding the headphones, however the signal is mono!
The Mic input accepts any balanced dynamic microphone. There is no phantom powering available for condenser microphones! The line input is designed to accept Walkman type output levels of cassette players. Both inputs have isolation transformers for ground free connections.
The headphone output accepts low impedance headsets of 32 ohm or higher.

CONTROL SETTINGS

On the front panel of the Teleporter-3 you notice 4 controls.
The Mic and Line knobs control the input levels of the incoming Mic and line signals. An input level signal indicator is not available because levels are automatically adjusted by the internal compressor. In situations where the input signal is too high(distortion) , an internal limiter holds the level down to avoid distortion. Even if the signal in the headphone set distorts with too high volume settings, the signal sent to the studio will be hardly distorted.
The BAL. (balance) control reduces the level coming from the Mic line input to the headphone set. When this control is set counter clockwise, both Mic/line signals and studio return signal are heard. By adjusting the BAL. control the Mic/line signal will be reduced to a certain point depending upon line impedances which may vary from situation to situation.
The BAL. control will not vary the level of the signal sent to the studio!
The PHONES control adjusts the headphone level. The record output produces the same signal as heard on the headphone output, but it is a fixed level.

CONNECTORS

Mic in on Female XL	pin1= ground pin2= Hot pin3= Cold
LINE IN on Cinch (L=R)	Shield= ground Center= Hot
RECORD OUT on Cinch (L+R)	Shield= ground Center= Hot
Phone LINE on RJ 11connector	pin4=A pin3=B

THE "ON" SWITCH.

This switch connects the Teleporter-3 to the telephone line. After hearing the dial tone you can dial the number you want, or you can make a connection between the Teleporter-3 and someone who's calling you.
The associated LED below the pushbutton will light on incoming calls and when you push the ON switch.

THE "BUZZER" SWITCH.

Normally a incoming call will activated the internal buzzer. The buzzer switch deactivated the buzzer so only the "ring" LED will show a incoming call. When activated the internal buzzer will buzz during incoming calls. When you do not need the sound of the internal buzzer when called from your station you can switch it off. The RING led will always indicate an incoming call.

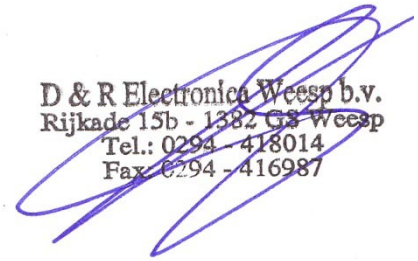
THE KEYBOARD

On the surface of the Teleporter-3 you will see the well known 13 keys that speaks for themselves (if you ever made a call in your life) plus an F(lash) button.
The ON switch connects the Teleporter-3 to the public phone company. Then wait for the dial tone and push the number you want to connect to.
F= Flash switch, this switch disconnects the line for about 100mSec, which means that the connection with the Telephone line is still available and that you are not losing your connection for dialing another number. Through an internal switching system you can get an extra line with this Flash switch. By hitting the Flash switch during an already made connection you temporarily disconnect your connection, a new dial tone will be heard and a new connection can be made to a new number.
By depressing the Flash switch again the "old" connection will be restored. This system will only work with switching systems with more than one line.
On the front of the unit you can change the dial mode from Tone to Pulse. A small pencil will do the job. The switch (between the balance and Phones controls) changes the dial mode from pulse to tone.

We sure hope that this unit will ease your job as a reporter and look forward to hear from you if there is any comment on this unit in field use.

Geachte klant,

Wij danken u hartelijk voor uw keuze en het vertrouwen dat u in ons product stelt.
U deed een goede keus, dit product is ontworpen door en voor professionele gebruikers.
Er is gebruik gemaakt van onze enorme "know how" in mengtafel en signaal processor technieken en dit gecombineerd met hoogwaardige componenten geeft u de zekerheid van een lange gebruiksduur.
Bovenstaande eigenschappen resulteren in een zeer betrouwbaar en Bedrijfszeker eindproduct.
Deze gebruiksaanwijzing helpt u in het optimaal benutten van alle mogelijkheden die dit product in zich heeft.
Mocht u nog vragen hebben dan kunt u zich altijd tot onze dealers wenden en in uiterste nood tot ons.



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GEBRUIKSAANWIJZING

De Teleporter-3 is een klein en handig apparaat om laagniveau signalen te versterken afkomstig van een microfoon en/of een band of cassette recorder.
Ook biedt de Teleporter-3 de mogelijkheid om signalen te mengen en een uitgangssignaal te geven dat conform de PTT en omroepnormen is. Er kunnen tevens opnamen gemaakt worden van telefoongesprekken voor latere doorzending naar de studio.
De bediening van de Teleporter-3 is ondanks zijn vele mogelijkheden zeer eenvoudig.
Een standaard telefoonkabel (te verkrijgen bij uw PTT winkel of soortgelijke zaken) verbindt uw Teleporter-3 aan het telefoonnet, dan wel met een interne huiscentrale.
Verder vindt u aan de achterzijde een female XLR connector voor de microfoon, en Cinch voor uw lijnsignalen en nog een Cinch voor verbinding met een recording device voor registratie van gesprekken. Een stereo jack verzorgt de signalen naar een stereokoptelefoon, de audio is echter mono .
De microfoon ingang is uitgevoerd met een XLR connector. Elke ons bekende microfoon kan op deze connector aangesloten worden. Er is slechts een uitzondering in het geval dat de microfoon fantoomvoeding nodig heeft, er dient dan een externe fantoom voeding aangesloten te worden alvorens het signaal op de Teleporter-3 aan te sluiten. Wij raden echter aan een dynamische microfoon te gebruiken. De ingang is gebalanceerd uitgevoerd. De tape ingang is uitgevoerd met een Cinch connector en is geschikt voor iedere card recorder of walkman-achtig player.

INSTELLINGEN VAN DE TELEPORTER-3.

Op de voorzijde van de Teleporter-3 bevinden zich vier draaiknoppen waarmee u onder andere het niveau van de microfoon en/of line in kunt stellen. Een optimale instelling wordt verkregen door het niveau zover op te draaien tot dat er net geen vervorming optreed. Echter indien het signaal te hoog is dan wordt het signaal door een ingebouwde limiter begrenst om vervorming te voorkomen. Om de Telephone lijn goed in te sturen mag best fors ingestuurd worden via de mic regelaar.
Verder ziet u een "Balance" regelaar, die de verhouding tussen het inkomend en uitgaand signaal regelt wat u op de koptelefoon hoort. *Dus niet het uitgaande niveau naar de studio!*
De laatste knop "PHONES" regelt het level in uw koptelefoon.

DE “ON” SCHAKELAAR

Met deze schakelaar maakt u een verbinding met het telefoonnet, waarna u een nummer kunt kiezen, of een binnenkomende lijn kunt oppakken. de bijbehorende led geeft aan dat er spanning op de lijn is.

DE “BUZZER" SCHAKELAAR

Ingedrukt schakelt u de interne buzzer uit. Uitgeschakeld een handige feature bij het verslaan van bijvoorbeeld biljart wedstrijden waar het niet gewenst is dat er geluid gemaakt wordt als uw studio u terugbelt uit kosten overwegingen. De bijbehorende led (RING) brandt altijd als de Teleporter-3 "gebeld" wordt.

HET TOETSEN VELD

Aan de bovenkant van de Teleporter-3 vindt u de druktoetsen zoals op ieder normaal telefoontoestel. De bovenste 13 zwarte toetsen vertegenwoordigen de bekende cijferreeks met daarbij het "sterretje" en het "hekje" en de F toets.

U zet de Teleporter-3 aan door de "ON" toets te activeren. Hierna drukt u het gewenste nummer in.

F= de Flashtoets verbreekt de lijn slechts 100msec waardoor de verbinding met de centrale en het mogelijk verliezen van uw netlijn voorkomen wordt. Tevens kunt u met deze toets via een centrale een extra buitenlijn kiezen. U gaat als volgt te werk, tijdens de reeds gemaakte verbinding drukt u op de Flash toets waarna de verbinding schijnbaar verbroken is, en een nieuwe netlijn zich aandient. Door nogmaals op de Flash toets te drukken krijgt u uw "oude" verbinding weer terug. Dit kan echter alleen bij interne centrales met meerdere lijnen.

Pulse= Het veranderen van de kies functie. Deze inwendige schakelaar (tussen de Balance en Phones) toets wijzigt de kiesprocedure van "Puls" naar Tone .

IN/UITGANGEN

Een speciale transformator in de Teleporter-3 zorgt voor een perfecte symmetrische aardvrij telefoon aanpassing aan de telefoonlijn. De Teleporter-3 uitgang voldoet aan de gestelde PTT en omroepnormen.
Op de achterkant van de Teleporter-3 bevindt zich de headphone uitgang. Deze uitgang is geschikt om een hoogohmige koptelefoon (niet lager dan 600 Ohm) aan te sluiten, waardoor het mogelijk is om het weggestuurde en inkomende signalen te beluisteren.

Wij hopen dat u veel plezier en praktisch nut zult beleven aan de nieuwe Teleporter-3

SPECIFICATIES:

- Pulse and DTMF dialing.
- Dynamic limiting (speech controlled) is independent of cable length/line voltage.
- Power-down input for improved performance during pulse dial or register recall (flash).
- Line loss compensation.
- Automatic disabling of the DTMF amplifier in extreme low voltage conditions.

CONNECTORS

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Phone LINE on RJ 11connector	pin4=A pin3=B

DECLARATION OF CONFORMITY

Manufacturers Name: D&R Electronica Weesp b.v.
Manufacturers Address: Rijnkade 1 5B,
1382 GS Weesp,
The Netherlands

declares that the product **Teleporter-3**

conforms to the following product specifications:

EMC: EN 55022: 1987
CISPR 22 (1993) class B
EN 500082-1 (1992)

Supplementary Information:

The products herewith complies with the requirements of the EMC Directive 89/336/EEC (1989) as amended by the CE Marking Directive 93/68/EEC (1993).

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1382 GS WEESP
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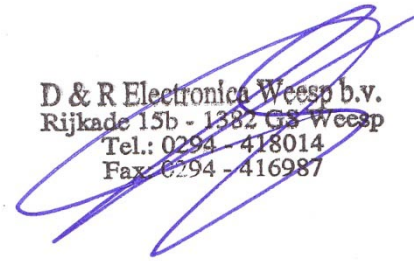

President

PRODUCT SAFETY

This product is manufactured with the highest standards and is double checked in our quality control department for reliability in the "HIGH VOLTAGE" section.

CAUTION

Never remove any panels, or open this equipment. No user serviceable parts inside. Equipment power supply must be grounded at all times. Only use this product as described, in user manual or brochure. Do not operate this equipment in high humidity or expose it to water or other liquids. Check the AC power supply cable to assure secure contact. Have your equipment checked yearly by a qualified dealer service center. Hazardous electrical shock can be avoided by carefully following the above rules.

EXTRA CAUTION FOR LIVE SOUND

Ground all equipment using the ground pin in the AC power supply cable.
Never remove this pin. Ground loops should be eliminated only by use of isolation transformers for all inputs and outputs. Replace any blown fuse with the same type and rating only after equipment has been disconnected from AC power. If problem persists, return equipment to qualified service technician

PLEASE READ THE FOLLOWING INFORMATION

Especially in sound equipment on stage the following information is essential to know.
An electrical shock is caused by voltage and current, actually it is the current that causes the shock. In practice the higher the voltage the higher the current will be and the higher the shock.
But there is another thing to consider and it is resistance. When the resistance in Ohms is high between two poles, the current will be low and vice versa. All three of these; voltage, current. and resistance are important in determining the effect of an electrical shock.

However, the severity of a shock primarily determined by the amount of current flowing through a person.
A person can feel a shock because the muscles in a body respond to electrical current and because the heart is a muscle it can affect, when the current is high enough.
Current can also be fatal when it causes the chest muscles to contract and stop breathing. At what potential is current dangerous. Well the first feeling of current is a tingle at 0.00 1 Amp of current. The current between 0.1 Amp and 0.2 Amp is fatal. Imagine that your home fuses of 20 Amp can handle 200 times more current than is necessary to kill. How does resistance affect the shock a person feels. A typical resistance between one hand to the other in "dry" condition could well over 100,000 Ohm. And last but not least be careful not to touch a person being shocked as you, yourself could also be shocked. Once removed from the shock, have someone send for medical help immediately.

Always keep the above mentioned information in mind when using electrically powered equipment.

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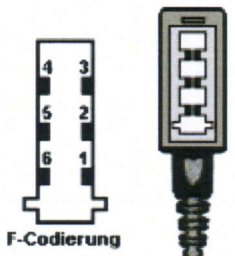
Technische Hinweise zum Anschluss des Telefonhybrids

Anschlussbelegung RJ11 / Keine Funktion des Telefons:

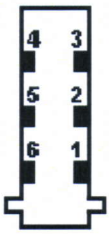
Manchmal kommt es vor, dass ein Telefon nicht am Telefonhybrid funktioniert. Dies liegt nicht an einem Gerätedefekt, sondern an unterschiedlichen Anschlussbelegungen der Telefonleitungen (RJ11) am Telefon. Nachfolgenden führen wir die richtige Belegung der einzelnen Stecker auf, damit der Telefonhybrid betrieben werden kann:

TAE-Stecker (Wandanschluss):

F-Codierung: Abk. für "Fernsprecher-Codierung". Durch Nasen am TAE-Stecker passen die Stecker von Telefonen immer nur in F-Buchsen der Anschlussdose.



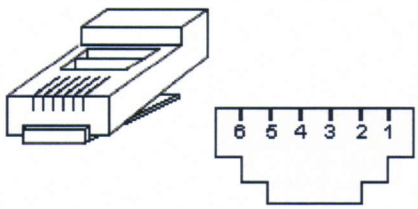
TAE-6-F-Stecker

F-Codierung				
	**1**	**La oder a1**	**a-Leitungsader**	**weiß**
	2	**Lb oder b1**	**b-Leitungsader**	**braun**
	3	W	Externer Wecker/Klingel	grün
	4	E	Erde für Nebenstelle	gelb
	5	b2	b-Leitungsader vom Gerät zurück	-
	6	a2	a-Leitungsader vom Gerät zurück	-

Für den Betrieb des Telefons und des Telefonhybrids ist die Belegung 1 und 2 erforderlich.

RJ11-Stecker (Western-Stecker): Belegung Telefonhybrid (PHONE + LINE)

6 Kontakte (davon 4 belegt), Westernstecker 6P4C. Die beiden äußeren Kontakte fehlen.

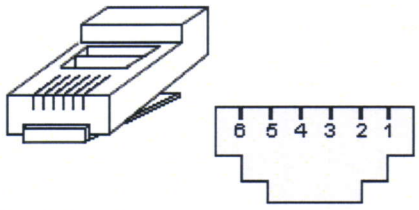


1 = frei
2 = frei
3 = La oder a1 a-Leitungsader
4 = Lb oder b1 b-Leitungsader
5 = frei
6 = frei

RJ11-Stecker (Western-Stecker): Belegung Telefon Internationale Norm

6 Kontakte (davon 4 belegt), Westernstecker 6P4C. Die beiden äußeren Kontakte fehlen.

Telefone mit dieser Beschaltung funktionieren mit jedem Standard – Kabel am Telefonhybrid

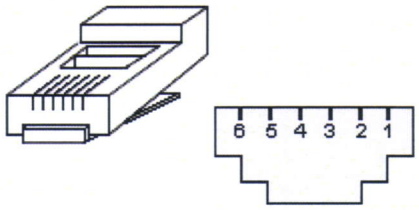


1 = frei
2 = frei
3 = La oder a1 a-Leitungsader
4 = Lb oder b1 b-Leitungsader
5 = frei
6 = frei

RJ11-Stecker (Western-Stecker): Belegung Telefon (z.T. Telekom / Siemens)

6 Kontakte (davon 4 belegt), Westernstecker 6P4C. Die beiden äußeren Kontakte fehlen.

Für den Betrieb bestimmter Telefone muss ein angepasstes Kabel verwendet werden, sonst ist kein Betrieb des Telefons möglich.



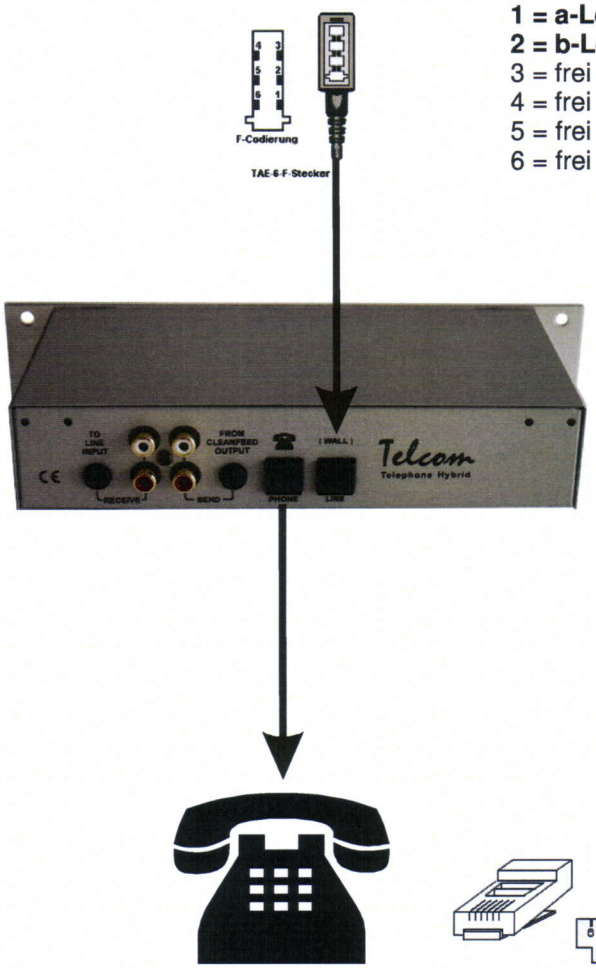
1 = frei
2 = Lb oder b1 b-Leitungsader
3 = frei
4 = frei
5 = La oder a1 a-Leitungsader
6 = frei

Der Hersteller hat meistens folgendes Kabel im Lieferumfang:

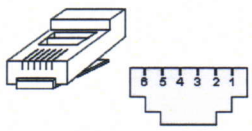
TAE-F			RJ11	
1	La oder a1	a-Leitungsader --->	5 = La oder a1	a-Leitungsader
2	Lb oder b1	b-Leitungsader --->	2 = Lb oder b1	b-Leitungsader

Wenn dieses Kabel in den Hybrid gesteckt wird, ist keine Funktion möglich, da das Gerät auf 3 und 4 funktioniert und nicht auf 5 und 2 !!!

Hier der Belegungsplan als Gesamtübersicht



1 = a-Leitungsader
2 = b-Leitungsader
3 = frei
4 = frei
5 = frei
6 = frei



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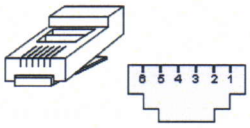
3 = a-Leitungsader
4 = b-Leitungsader
5 = frei
6 = frei



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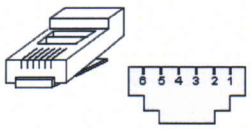
5 = frei
6 = frei



1 = frei
2 = frei
3 = a-Leitungsader
4 = b-Leitungsader
5 = frei
6 = frei

oder

Bei Nichtfunktion des Telefons, ist die Belegung

des RJ11 – Steckers auf 5 und 2 zu ändern !!!

1 = frei
2 = b-Leitungsader
3 = frei
4 = frei
5 = a-Leitungsader
6 = frei